



1/11

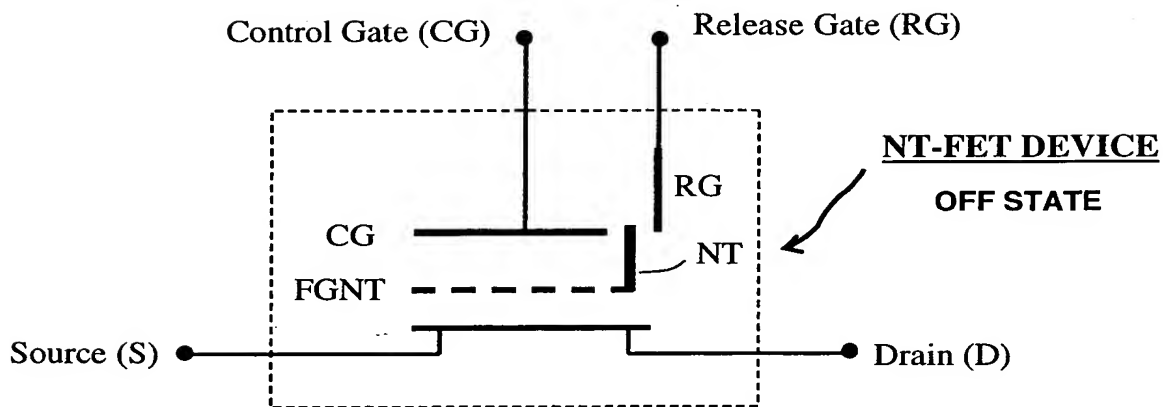


FIG 1a

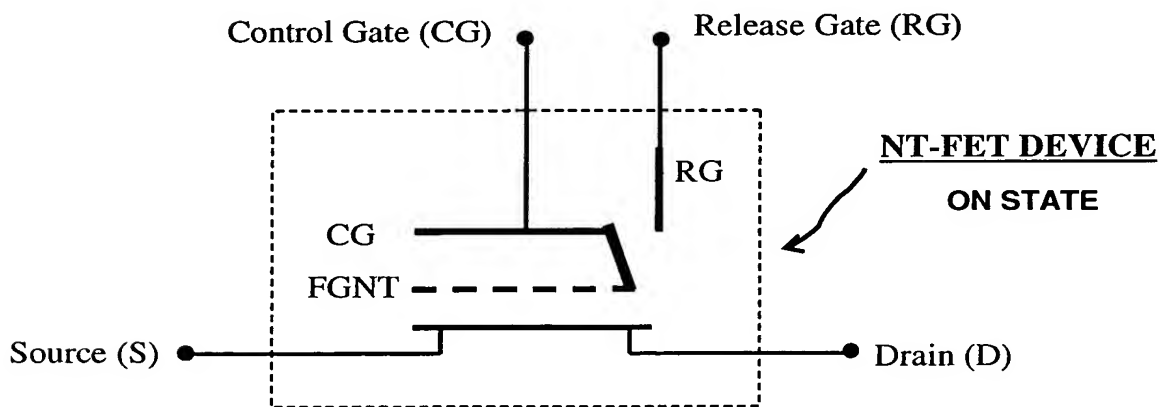


FIG 1b

2/11

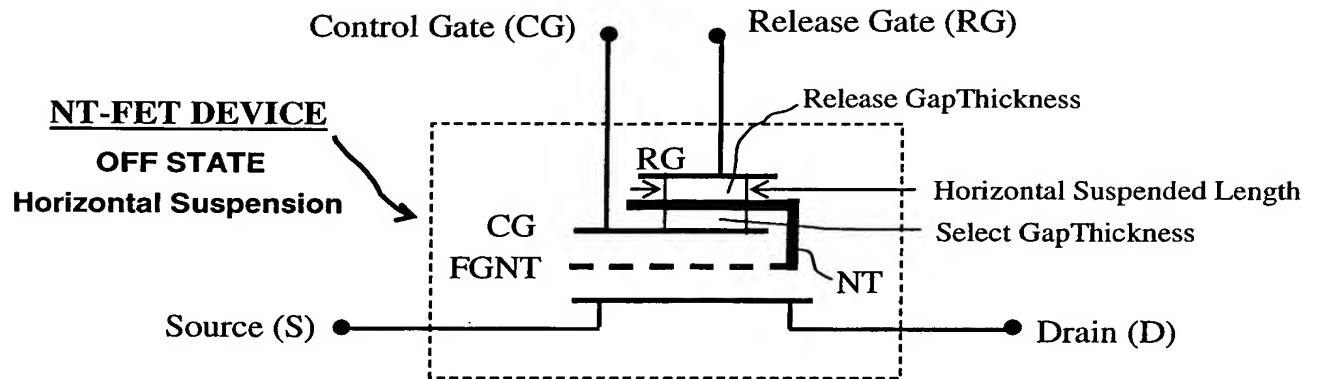


FIG 2a

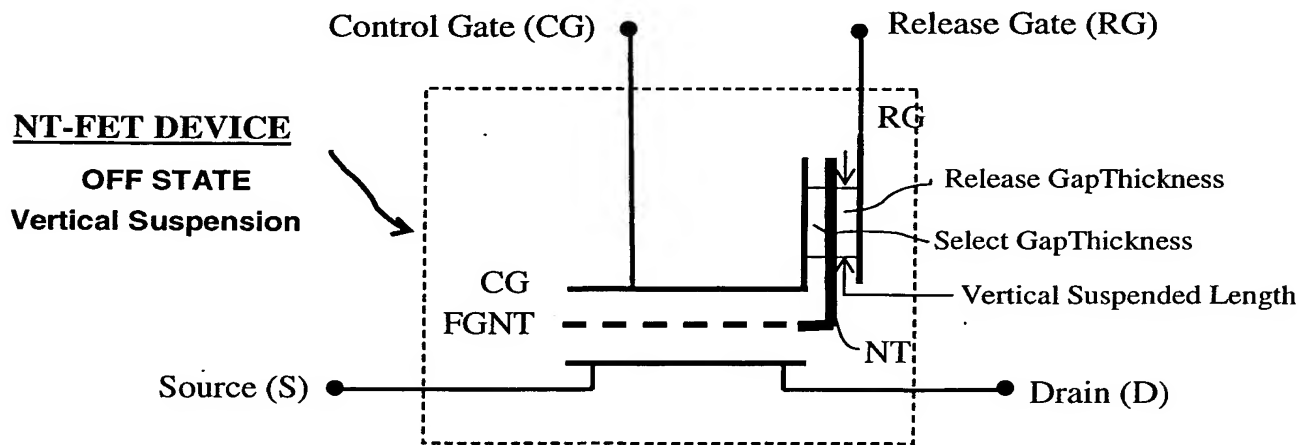


FIG 2b

3/11

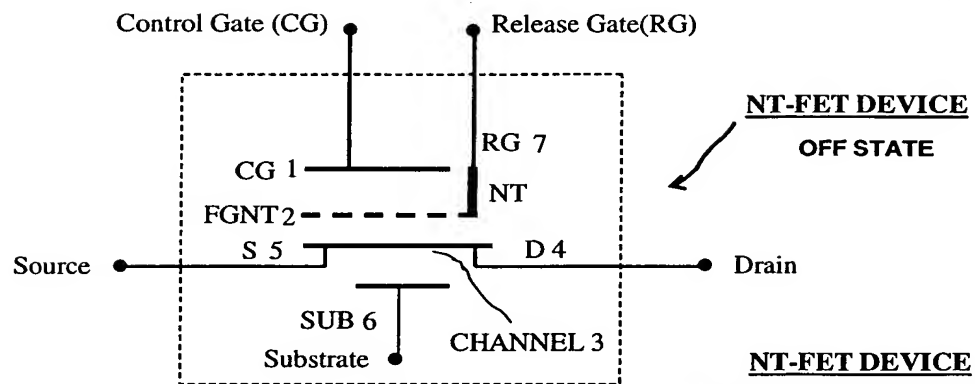


FIG 3a

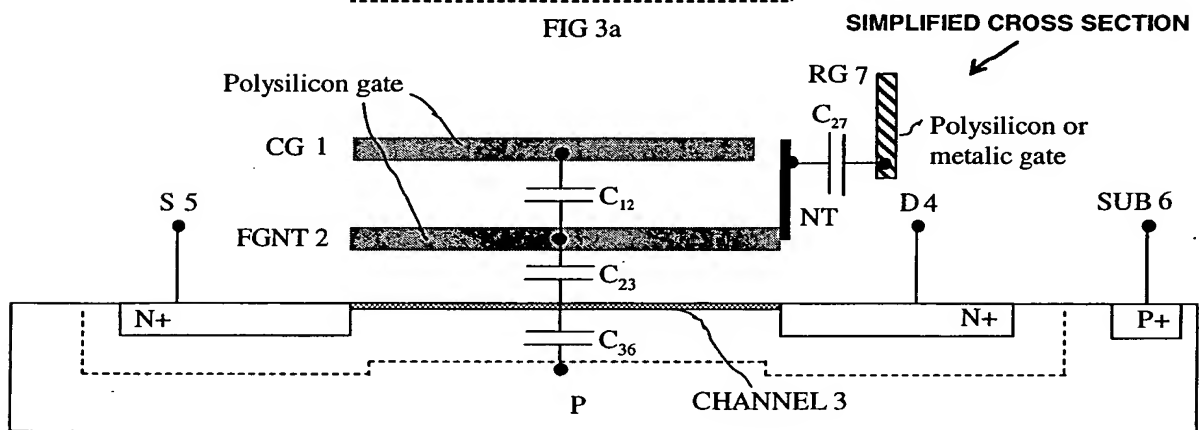
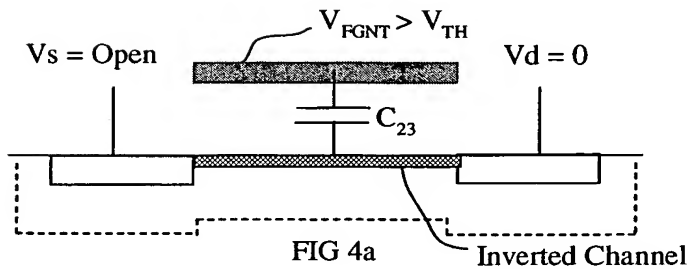


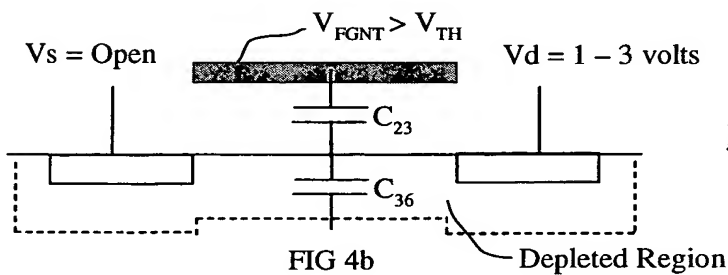
FIG 3b

4/11

CHANNEL REGION MODULATION

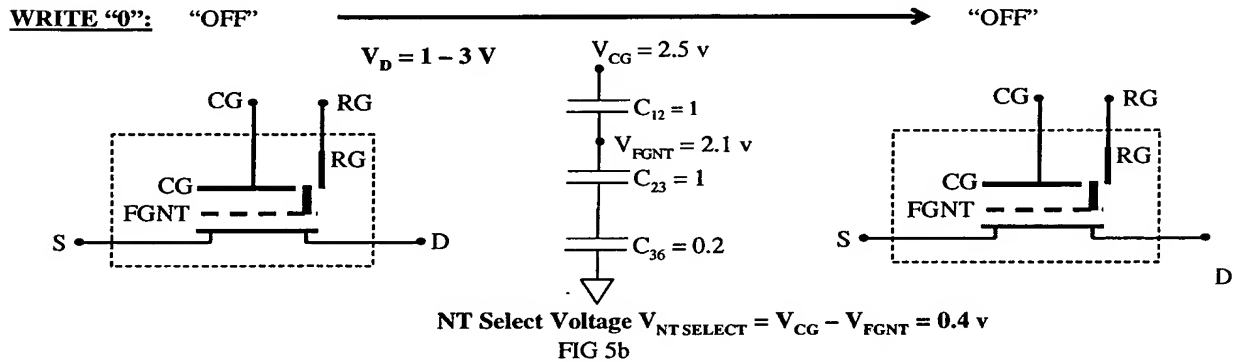
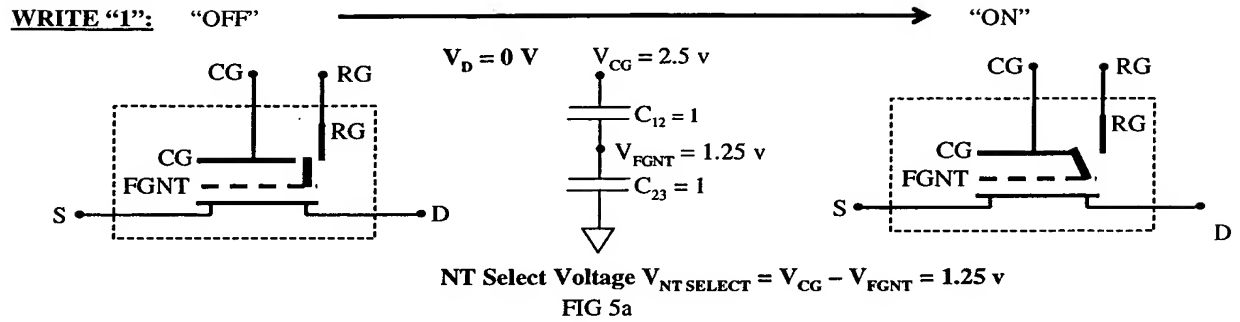


Inverted Channel: electrons at $V = 0$ volts



Depleted Channel: electrons flow
to positive terminal

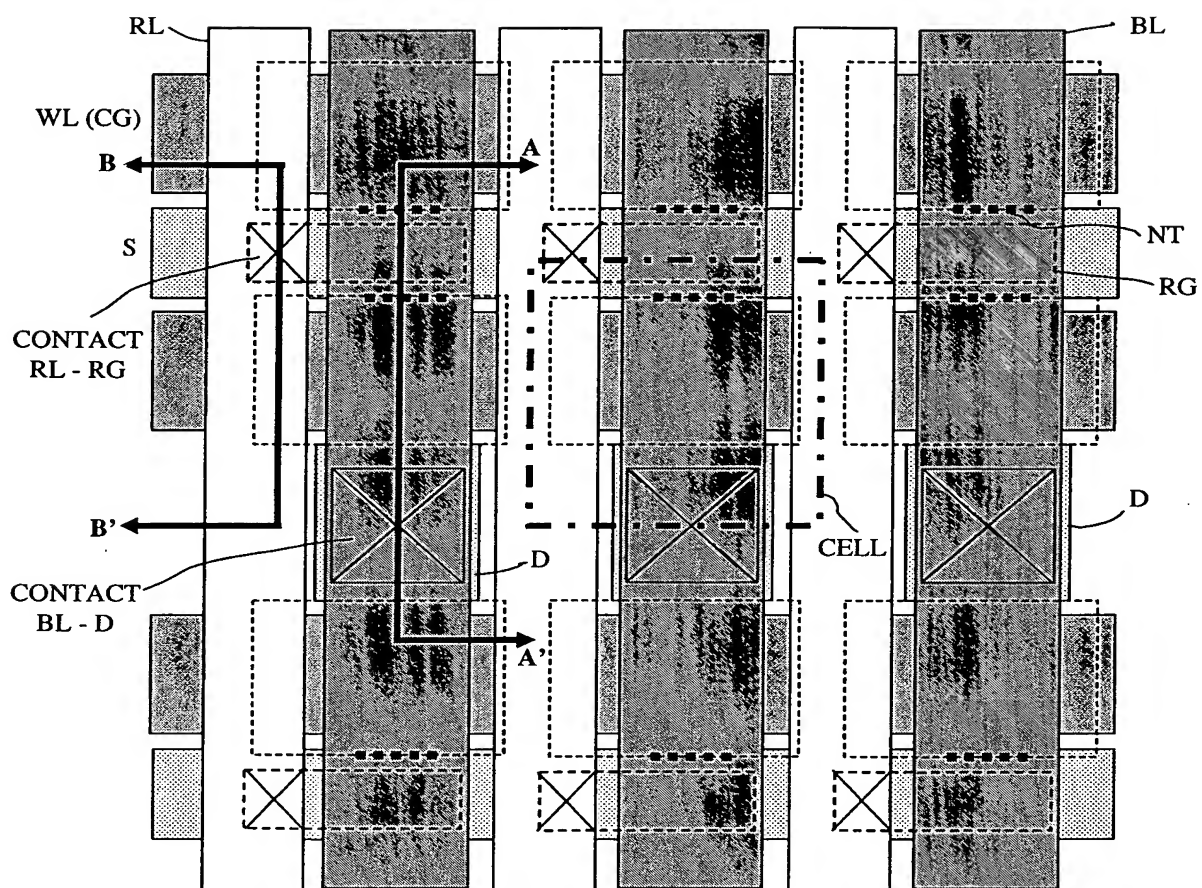
5/11



NET: SELECT VOLTAGE THRESHOLD RANGE $> 0.4 \text{ v}$ & $< 1.25 \text{ v}$

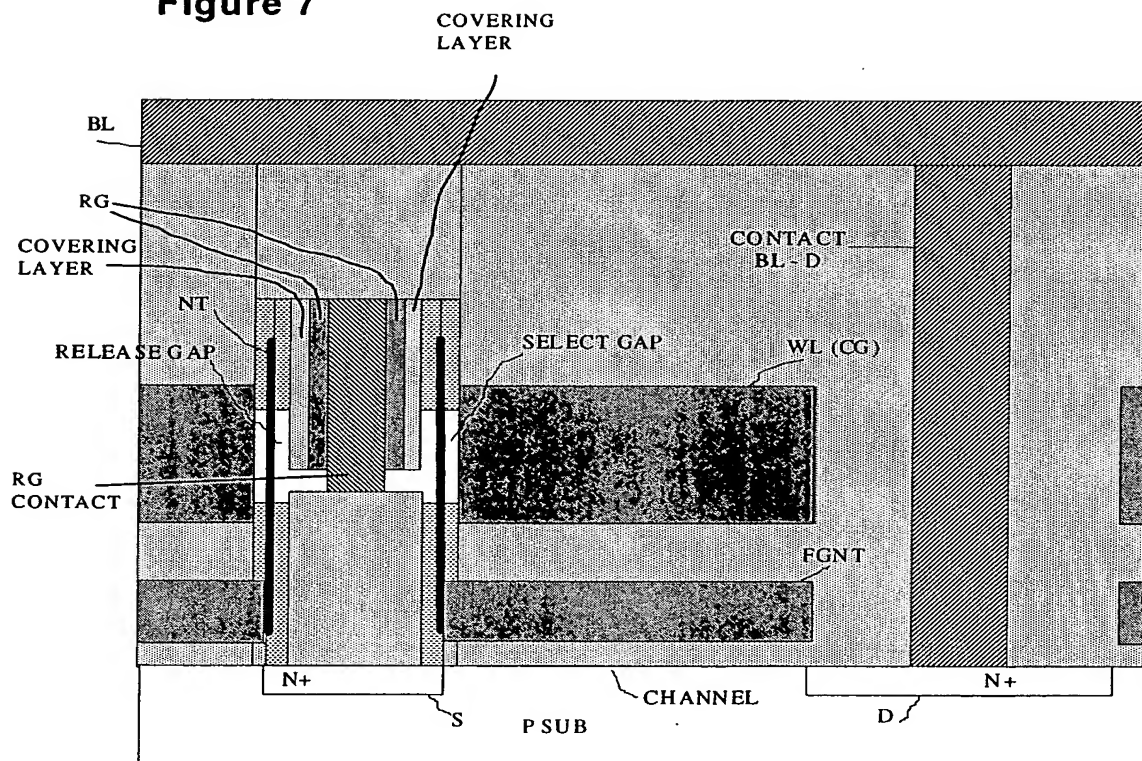
6/11

Figure 6



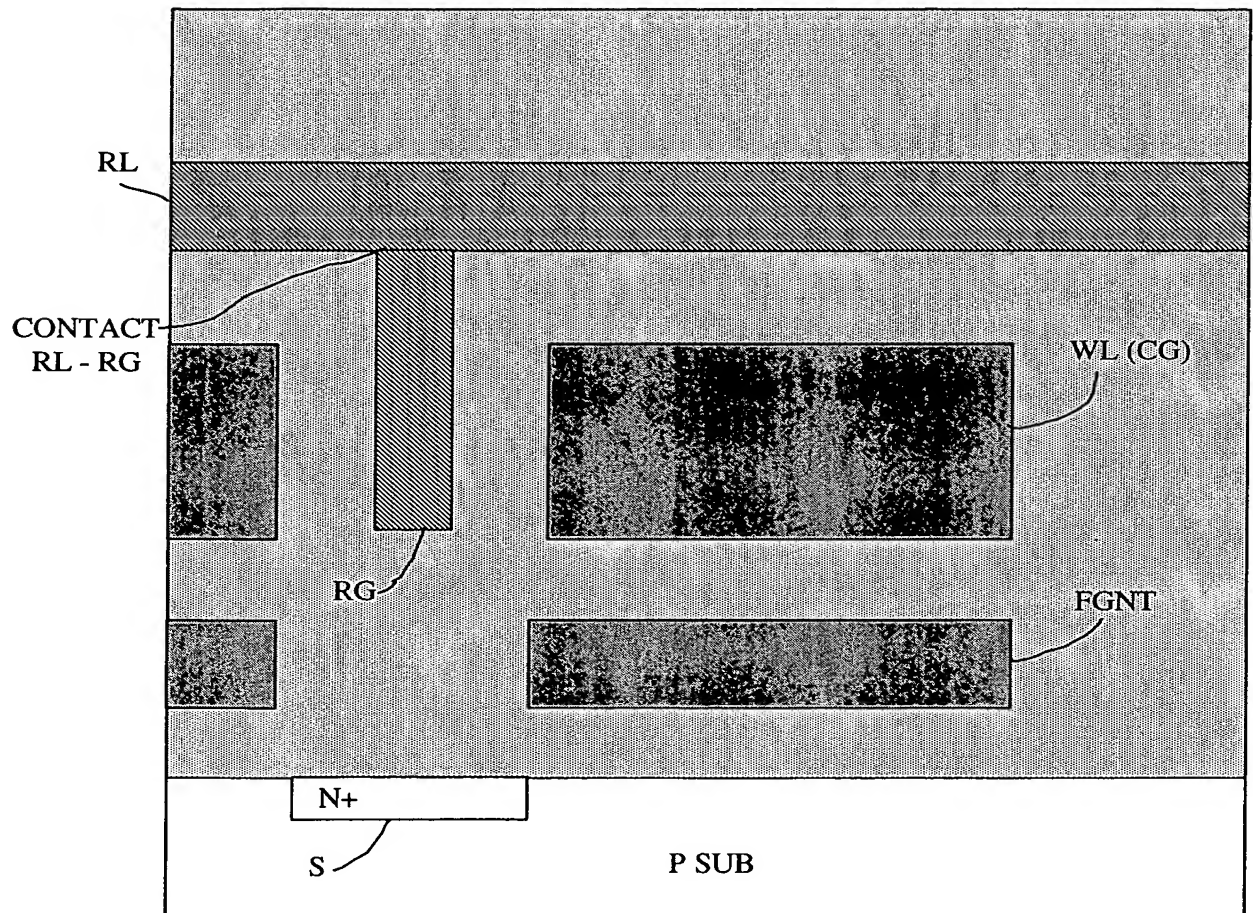
7/11

Figure 7



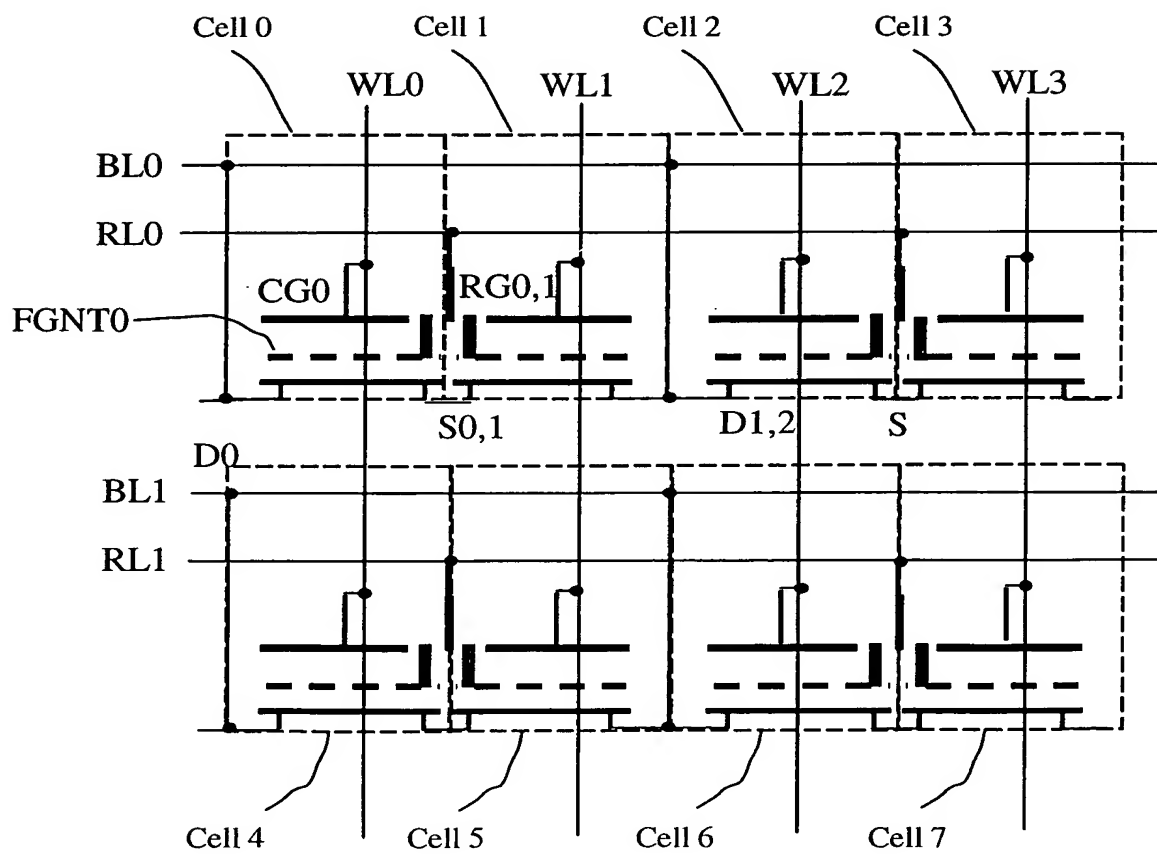
8/11

Figure 8



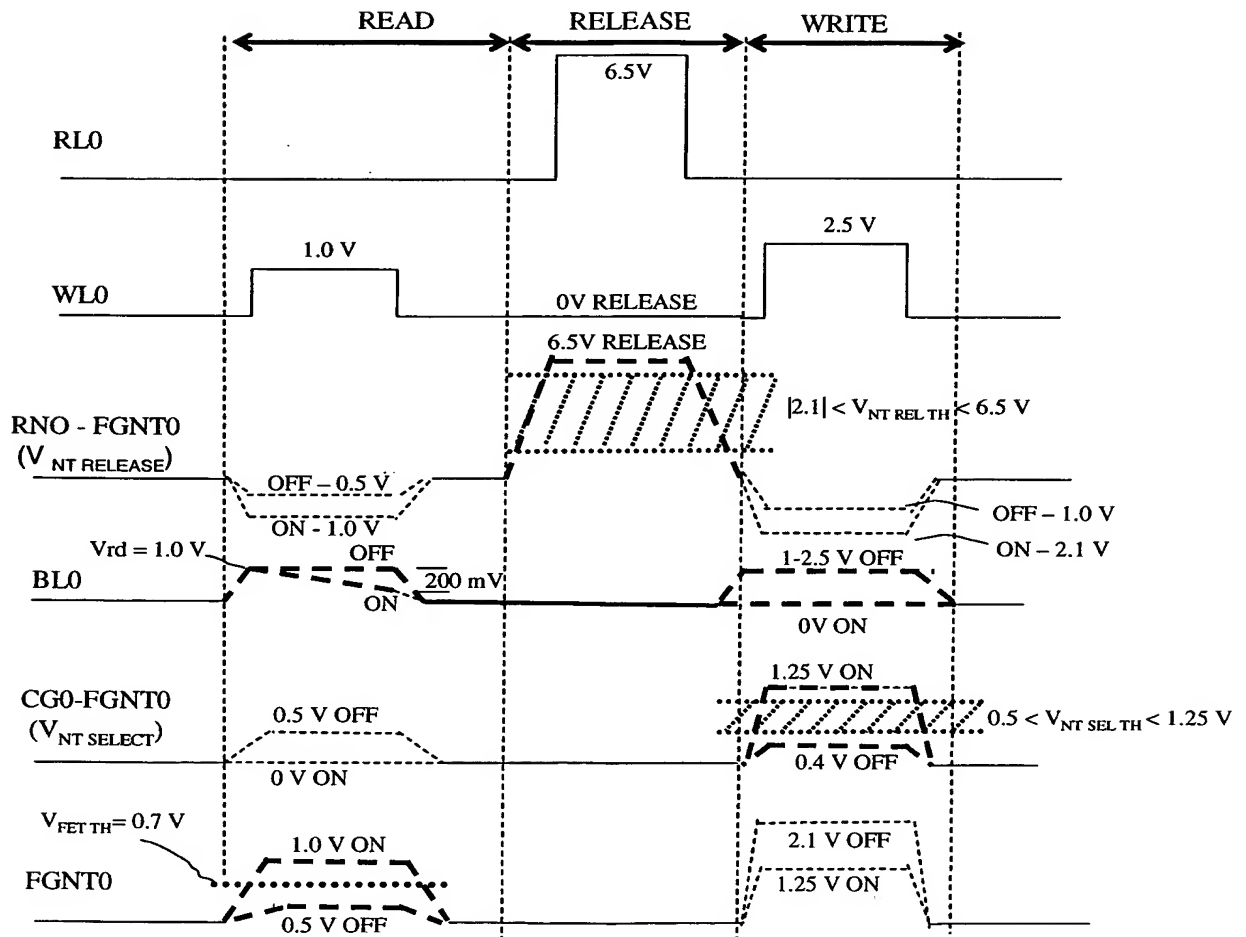
9/11

Figure 9



10/11

Figure 10



11/11

Figure 11

